FIG. 18A

pET22b(+) forward primer:

5'-CGG GAT CCG <u>GGT TTG AAA GGA AAA CGT</u>-3' (SEQ ID NO:11) pET22b(+) reverse primer:

5'-CCC AAG CTT TCA GTG TCT TTT CTT CAT-3' (SEQ ID NO:12)

5 10 ggt ttg aaa gga	15 aaa	20 cqt qqa	25 gac agt		35 tca cct	40 gca acc	45 tgg
50 55 aca acg aga ggc	60	65	70	75	80	85	90
95 100 att cct tca tgt	105 cca		115 aca gtg	120 cca	125 ctc tac	130 agt ggg	135 ttt
140 145 tct ttt ctt ttt	150 gta	155 caa gga		165 cga			180 gac
185 190 ctt gga act ctt	195 ggc	200 agc tgc		210 cga		220 aca atg	225 cca
230 235 ttc tta ttc tgc	240 aat	245 gtc aat	250 gat gta	255 tgt	260 aat ttt	265 gca tct	270 cga
275 280 aat gat tat tca	285 tac	290 tgg ctg		300 cca	305 gct ctg	310 atg cca	315 atg
320 325 aac atg gct ccc			340 aga gcc	345 ctt			360 agc
365 370 aga tgc act gtt	375 tgt		385 cct gcg		395 gcc ata		405 cac
410 415 agc caa acc act	420 gac	425 att cct				445 tgg att	450 tct
455 460 ctc tgg aaa gga	465 ttt	470 tca ttc	475 atc atg	480 ttc	485 aca agt	490 gca ggt	495 tct
500 505 gag ggc acc ggg	510 caa	515 gca ctg	520 gcc tcc	525 cct	530 ggc tcc	535 tgc ctg	540 gaa
545 550 gaa ttc cga gcc	555 agc	560 cca ttt		570 tgt		580 aga gga	585 acg
590 595 tgc aac tac tat	600 tca		610 tac agt	615 ttc	620 tgg ctg	625 gct tca	630 tta
635 640 aac cca gaa aga	645 atg		655 aag cct			670 act gtg	675 aaa
680 685 gct ggg gaa tta	690 gaa		700 ata agt			715 gtg tgc	720 <u>atg</u>
725 730 735 <u>aag aaa aga cac tga</u> (SEQ ID NO:9)							

pET22b-α3(IV) NC1 = nucleotides 1 through 732 Tumstatin 333 = nucleotides 1 through 372 Tumstatin 334 - nucleotide 373 through 732



FIG. 18B

GLK GKR GDS GSP ATW TTR GFV FTR HSQ TTA IPS CPE GTV PLY SGF SFL FVQ GNQ RAH GQD LGT LGS CLQ RFT TMP FLF CNV NDV CNF ASR *+ NDY SYW LST PAL MPM NMA PIT GRA LEP YIS RCT VCE GPA IAI AVH SQT TDI PPC PHG WIS LWK GFS FIM FTS AGS EGT GQA LAS PGS CLE EFR ASP FLE CHG RGT CNY YSN SYS FWL ASL NPE RMF RKP IPS TVK AGE LEK IIS RCQ VCM KKR H (SEQ ID NO:10)

pET22b α3(IV) NC1 = residues 1 through 244 Tumstatin 333 = residues 1 through 124 Tumstatin 334 = residues 125 through 244



FIG. 42

	T1	GP-A
GLKGK RGD S	GSPATWTTRGFVFTRHS(QT TAIPSCPEGTVPLY S
		Т3
	T2	Т4
GFSFLFVQG	NQRAHGQDLGTLGSCLQI	RFTTMPFLFCNVNDVCN
Т3	Т5	·
		T 6
FASRNDYSY	WLSTPALMPMNMAPITG	RALEPYISRCTVCEGPA
<u>T6</u>	GP-B	
IAIAVHSQT	TDIPPCPHGWISLWKGF	SFIMFTSAGSEGTGQAL
ASPGSCLEE	FRASPFLECHGRGTCNY	YSNSYSFWLASLNPERM
FRKPIPSTV	KAGELEKIISRCOVCMKI	KRH